

## **Electrical Engineering** 3.1.9

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Fall Semester						Spring Semester					
Course	Course Title	<b>Credit Hours</b>		Course	Course Title	Credit Hours					
Code	Course Title	Th	Pr	Total	Code	course ride	Th	Pr	Total		
EE-125	Basic Electrical Engineering	3	1	4	EE-156	Engineering Drawing	0	2	2		
PH-122	Applied Physics	3	1	4	EE-126	Circuit Analysis	3	1	4		
HS-114	Functional English	3	0	3	MT-227	Differential Equation	3	0	3		
ME-107	Basic Mechanical Engineering	3	1	4	CE-109	Engineering Surveying-I	2	1	3		
MT-114	Calculus	3	0	3	EE-163	Computer and Programming	3	1	4		
					HS-105	Pakistan Studies OR	2	0	2		
					HS-127	Pakistan Studies (For Foreigners)					
					HSK-I	Chinese Language			NC		

## **SECOND YEAR**

Fall Semester						Spring Semester					
Course	Course Title	Credit Hours		Course	Course Title	Credit Hours					
Code	course ritie	Th	Pr	Total	Code	COULTS THE	Th	Pr	Total		
EL-240	Electronic Devices & Circuits	3	1	4	EE-382	Electromagnetic Fields	2	0	2		
EE-264	Data Structures and Algorithms	2	1	3	EE-223	Instrumentation and Measurement	2	1	3		
MT-272	Linear Algebra & Geometry	3	0	3	EE-231	Signals and Systems	3	1	4		
MT-226	Multi Variable Calculus	3	0	3	CS-205	Logic Design & Switching Theory	3	1	4		
HS-214	Academic Writing	3	0	3	MT-331	Probability and Statistics	3	0	3		
HS-205	Islamic Studies OR	2	0	2							
HS-209	Ethical Behaviour										
HSK-II	Chinese Language			NC							

## THIRD YEAR

	Fall Semester					Spring Semester			
Course	Course Title	Cre Th	17 2 3 3	Hours Total	Course Code	Course Title	Cro Th		Hours Total
EE-345	Electrical Machines	3	1	4	EE-362	Power System Analysis	3	1	4
EE-394	Digital Signal Processing	2	1	3	EE-352	Electrical Power Transmission	3	0	3
EE-359	Electrical Power Distribution and Utilization	3	1	4	EE-374	Feedback Control Systems	3	1	4
EL-343	Power Electronics	3	1	4	TC-307	Communication Systems	3	1	4
MT-471	Applied Numerical Methods	2	1	3	HS-304	<b>Business Communication &amp; Ethics</b>	3	0	3

## **FINAL YEAR**

Fall Semester						Spring Semester						
Course	Course Title		Credit Hours			Course Title	Credit Hours Th Pr Total					
Code	е	Th	Pr	Total	Code		Th	PI	Total			
EE-457	Electrical Power System Protection	3	1	4	MG-482	Organizational Behavior	3	0	3			
EE-411	Power Generation	3	0	3	MG-481	Entrepreneurship	2	0	2			
CS-430	Microprocessor Programming & Interfacing	3	1	4	EE-412	Alternate Energy Systems	3	0	3			
EF-304	Occupational Safety and Health	2	0	2	CS-418	Computer Communication Networks	2	1	3			
EF-305	Engineering Economics & Management	3	0	3	EE-401	Electrical Engineering Project	0	3	3			
FF-401	*Flectrical Engineering Project	0	3	3								

<sup>\*</sup> Duration one academic year: Requires literature survey and preliminary work during this Semester